

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|---------|---|---|------------------|---------|------------------|
| S1 | 258367 | tree or multi\$level or hierarch\$6 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/22 13:52 |
| S2 | 4245 | S1 and (database near2 generat\$5) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/18 15:56 |
| S3 | 371 | S2 and (third same node) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/18 15:56 |
| S4 | 207 | S3 and pointer | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/18 15:58 |
| S5 | 186 | S4 and retriev\$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/18 15:58 |
| S6 | 183 | S5 and access\$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/18 15:58 |
| S7 | 176 | S6 and element | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/18 15:59 |
| S8 | 17 | S7 and subcomponent | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/18 16:00 |
| S9 | 5665276 | generat\$ near\$4 (database or data\$store) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/18 16:01 |
| S10 | 1 | S9 and subcomponenet | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/18 16:02 |

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|-----|------|--------------------------------------|---|----|----|------------------|
| S11 | 0 | S9 and subcomponent | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/18 16:02 |
| S12 | 5587 | S9 and subcomponent | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/18 16:03 |
| S13 | 180 | S12 and (third same node) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/18 16:04 |
| S14 | 87 | S13 and retriev\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/18 16:04 |
| S15 | 84 | S14 and access\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/18 16:04 |
| S16 | 2 | "5826252".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/19 07:10 |
| S17 | 2 | "6581039".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/19 10:40 |
| S18 | 262 | (master and secondary) with database | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/19 10:41 |
| S19 | 55 | S18 and "zip code" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/19 10:42 |
| S20 | 41 | S19 and bank\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/19 10:43 |

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| S21 | 2 | S20 and "707"/\$.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/19 11:02 |
| S22 | 2 | "6415320".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/19 11:02 |
| S23 | 2 | "6240396".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/19 11:03 |
| S24 | 2 | "5794207".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/19 11:04 |
| S25 | 2 | "6341353".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/19 11:05 |
| S26 | 2 | "6405175".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/19 11:05 |
| S27 | 2 | "6523037".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/19 11:05 |
| S28 | 18 | multi-level and data\$store | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/12/13 06:13 |
| S29 | 6 | S28 and product | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/22 13:54 |
| S30 | 480 | multi-level same (data\$store or database) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/12/13 06:13 |

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| S31 | 164 | S30 and pointer | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/12/13 06:13 |
| S32 | 78 | S31 and root | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/12/13 06:13 |
| S33 | 69 | S32 and (first and second and third) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/12/13 06:14 |
| S34 | 43 | S33 and hierarchic\$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/12/13 06:14 |
| S35 | 33 | S34 and indicator | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/12/13 06:15 |
| S36 | 32 | S35 and node | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/12/13 06:24 |
| S37 | 6 | S36 and "707" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/12/13 06:21 |
| S38 | 5773 | "data structure":same tree | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/12/13 06:25 |
| S39 | 969 | S38 and node and root and first and second and third and hierarchic\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/12/13 06:26 |
| S40 | 246 | S39 and pointer and indicator | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/12/13 06:26 |

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| S41 | 105 | S40 and level and (create same node) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/12/13 06:27 |
| S42 | 55 | S41 and (access same database) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/12/13 06:28 |
| S43 | 41 | S42 and retriev\$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/12/13 06:30 |
| S44 | 23 | S43 and "707"/\$ | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/12/13 06:30 |
| S45 | 5876 | "data structure" same tree | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 07:46 |
| S46 | 981 | S45 and node and root and first and second and third and hierarchic\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 07:46 |
| S47 | 247 | S46 and pointer and indicator | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 07:46 |
| S48 | 105 | S47 and level and (create same node) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 07:46 |
| S49 | 55 | S48 and (access same database) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 07:46 |
| S50 | 41 | S49 and retriev\$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 07:46 |

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| S51 | 23 | S50 and "707"/\$ | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 07:49 |
| S52 | 16 | database and (first and second and third) and root | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 07:56 |
| S53 | 2266 | (first and second and third) with root | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 07:56 |
| S54 | 297 | S53 and database | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 07:56 |
| S55 | 169 | S54 and node | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 07:56 |
| S56 | 107 | S55 and pointer | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 07:57 |
| S57 | 0 | S56 and heirarch\$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 07:57 |
| S58 | 74 | S56 and hierarch\$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 07:57 |
| S59 | 58 | S58 and element\$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 07:57 |
| S60 | 2678668 | product | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 07:58 |

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| S61 | 40 | S59 and product | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 08:23 |
| S62 | 0 | "5918229.pn" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 08:23 |
| S63 | 2 | "5918229".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 08:24 |
| S64 | 1 | S63 and creat\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 08:26 |
| S65 | 1 | S64 and pointer | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 08:31 |
| S66 | 0 | S65 and indicator | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 08:31 |
| S67 | 1 | S65 and link | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 08:31 |
| S68 | 263808 | tree or multi\$level or hierarch\$6 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 09:00 |
| S69 | 4396 | S68 and (database near2 generat\$5) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 09:00 |
| S70 | 382 | S69 and (third same node) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 09:00 |

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| S71 | 212 | S70 and pointer | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 09:00 |
| S72 | 191 | S71 and retriev\$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 09:00 |
| S73 | 188 | S72 and access\$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 09:00 |
| S74 | 180 | S73 and element | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 09:00 |
| S75 | 17 | S74 and subcomponent | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 09:05 |
| S76 | 4152 | build\$3 same hierarch\$6 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 09:06 |
| S77 | 1686 | S76 and ((first and second and third) and database) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 09:07 |
| S78 | 949 | S77 and node | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 09:07 |
| S79 | 478 | S78 and pointer | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 09:07 |
| S80 | 171 | S79 and indicator | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 09:07 |

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| S81 | 0 | S80 and elemant\$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 09:07 |
| S82 | 161 | S80 and element\$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 09:08 |
| S83 | 80 | S82 and null | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 09:08 |
| S84 | 41 | S82 and null | US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 09:08 |
| S85 | 39 | S82 and null | USPAT | OR | ON | 2005/01/12 09:22 |
| S86 | 0 | S85 and mememory | USPAT | OR | ON | 2005/01/12 09:22 |
| S87 | 39 | S85 and memory | USPAT | OR | ON | 2005/01/12 09:41 |
| S88 | 39 | S87 and element\$3 | USPAT | OR | ON | 2005/01/12 09:46 |
| S89 | 39 | S88 and creat\$3 | USPAT | OR | ON | 2005/01/12 09:50 |
| S90 | 39 | S89 and pointer | USPAT | OR | ON | 2005/01/12 10:21 |
| S91 | 39 | S90 and access | USPAT | OR | ON | 2005/01/12 10:21 |
| S92 | 4152 | build\$3 same hierarch\$6 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 12:08 |
| S93 | 1686 | S92 and ((first and second and third) and database) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 12:08 |
| S94 | 949 | S93 and node | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 12:08 |
| S95 | 478 | S94 and pointer | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 12:08 |

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| S96 | 171 | S95 and indicator | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 12:08 |
| S97 | 161 | S96 and element\$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 12:08 |
| S98 | 39 | S97 and null | USPAT | OR | ON | 2005/01/12 12:08 |
| S99 | 39 | S98 and memory | USPAT | OR | ON | 2005/01/12 12:08 |
| S100 | 39 | S99 and element\$3 | USPAT | OR | ON | 2005/01/12 12:08 |
| S101 | 39 | S100 and creat\$3 | USPAT | OR | ON | 2005/01/12 12:08 |
| S102 | 39 | S101 and pointer | USPAT | OR | ON | 2005/01/12 12:08 |
| S103 | 39 | S102 and access | USPAT | OR | ON | 2005/01/12 12:25 |
| S104 | 36 | S103 and link | USPAT | OR | ON | 2005/01/12 12:26 |
| S105 | 30 | S103 and link3 | USPAT | OR | ON | 2005/01/12 12:26 |
| S106 | 39 | S103 and link\$3 | USPAT | OR | ON | 2005/01/12 12:27 |
| S107 | 4152 | build\$3 same hierarch\$6 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 15:01 |
| S108 | 1686 | S107 and ((first and second and third) and database) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 15:01 |
| S109 | 949 | S108 and node | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 15:01 |
| S110 | 478 | S109 and pointer | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 15:01 |

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|----------|-----|---------------------|---|----|----|------------------|
| S11 1 | 171 | S110 and indicator | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 15:01 |
| S11 2 | 161 | S111 and element\$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/12 15:01 |
| S11 3 | 39 | S112 and null | USPAT | OR | ON | 2005/01/12 15:01 |
| S11 4 | 39 | S113 and memory | USPAT | OR | ON | 2005/01/12 15:01 |
| S11 5 | 39 | S114 and element\$3 | USPAT | OR | ON | 2005/01/12 15:01 |
| S11 6 | 39 | S115 and creat\$3 | USPAT | OR | ON | 2005/01/12 15:01 |
| S11 7 | 39 | S116 and pointer | USPAT | OR | ON | 2005/01/12 15:01 |
| S11 8 | 39 | S117 and access | USPAT | OR | ON | 2005/01/12 15:01 |
| S11 9 | 39 | S118 and link\$3 | USPAT | OR | ON | 2005/01/12 15:04 |
| S12 0 | 22 | S119 and constraint | USPAT | OR | ON | 2005/01/12 15:04 |